

**LEUCAS DEODIKARII BILLORE ET HEMADRI—A NEW SPECIES OF  
LAMIACEAE FROM THE SAHYADRI RANGE, MAHARASHTRA STATE**

By

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**ABSTRACT**

*Leucas deodikarrii* Billore et Hemadri, sp. nov. collected from the Sahaadri range of Maharashtra State, is described and illustrated.

*Leucas deodikarrii* Billore et Hemadri sp. nov. (Figs. 1-4).

Valde *L. pubescens* Benth. affinis, at differt proprio indumento undique strigoso, caule 4-angulato, folli majoribus (usque ad 15 x 7 cm) et claycis dentibus longioribus (usque ad 6 mm).

Holotypus (*Hemadri* 117970 A) et isotypi (*Hemadri* 117970 B-J) lacti ad Dhak khilla ad alt.  $\pm$  1100 m, ca. 27 km ad occidentem loci Junnar in dist. Poona in ditione Maharashtra, die 22 septembris anni 1968. Holotypus positus in *CAL*; isotypi *Hemadri* 117970 B-F in *BSI*; G in *K*; H in *L*; I in *BLAT* et J in *MH*.

*Leucas deodikarrii* Billore et Hemadri sp. nov. (Figs. 1-4).

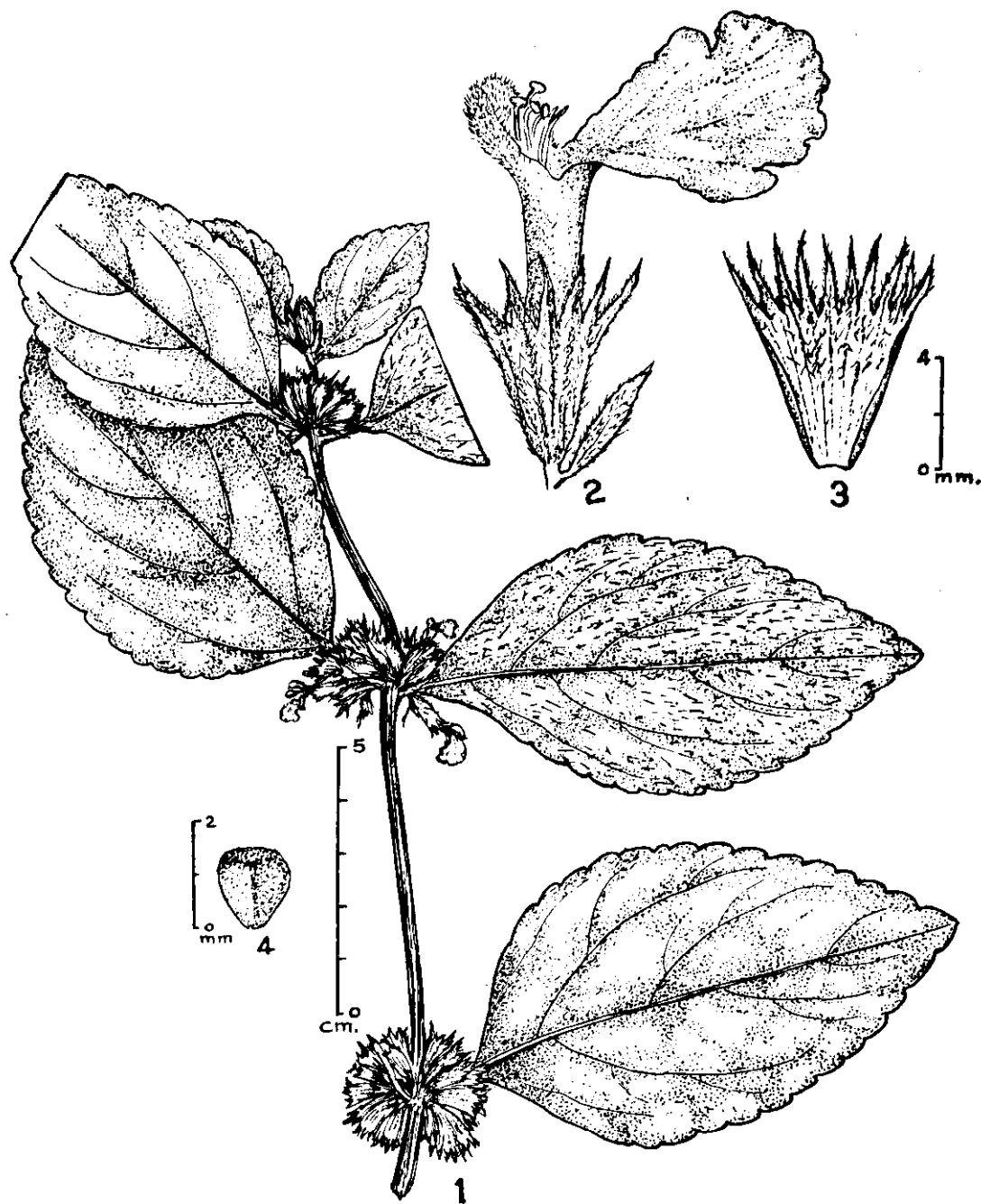
Closely allied to *Leucas pubescens* Benth. but can be distinguished by its characteristic strigose indumentum all over; obtusely 4-angled stem; larger leaves (up to 15 x 7 cm) and longer clayx-teeth (up to 6 mm).

Perennial erect—ascending herb or small undershrub, 1/5-1 m high. Root stock thick and woody. Stem 2-5 mm thick, obtusely quadrangular, shallow to deeply grooved, zig-zag, clothed with greyish deflexed strigose hairs. Leaves membranous, opposite, decussate, 5-16 x 3-7.5 cm including petiole, petiole 0.5-2 cm long; lamina broadly ovate or ovate-lanceolate with rounded-truncate and somewhat narrow base and acute apex, shallowly or deeply crenate, finely strigose above and beneath. Inflorescence a many-flowered, axillary false-whorl of congested cymes; peduncle up to 7 mm long; flower sessile or shortly pedicelled; bracts linear to oblanceolate 0.3-1.2 x 0.1-0.2 cm with strigose hairs along the margins and mid-rib. Calyx 0.9-1.4 cm long, campanulate and straight, about 10-ribbed, strigose mostly along the ribs, almost glabrous and reticulately veined within; teeth-10 unequal 1.5-7 mm long; triangular, acute-acuminate, strigose. Corolla bilabiate, white, ca. 1.6 cm long, tube ca. 1 cm long, glabrous within and hairy without in the upper half; upper-lip about ca. 0.5 cm long concave densely bearded with quite stiff hairs; lower-lip ca. 0.9 x 0.6 cm, 3-lobed, middle lobe larger, emarginate, glabrous above and hairy beneath. Stamens-4, didynamous, upper pair shorter, ascending under the upper lip; anthers orange-red, connivent, cells divaricate, ultimately confluent. Disc unequally 4-lobed. Ovary 4-partite; style bifid, subulate, upper lobe minute. Nutlets-4, 1.75-2 mm long, triquetrous, with rounded back, obovoid brownish, glabrous with rough surface.

Holotype *Hemadri* 117970 A and isotypes 117970 B-J were collected in the undergrowth of *Carvia callosa* (Nees) Brem. on the slopes of Dhak-khilla (Alt.  $\pm$  1100 m) about 27 km west of Junnar, Poona district, Maharashtra on 22nd September 1968. The holotype is deposited in *CAL* and the isotypes *Hemadri* 117970 B-F in *BSI*, G in *K*, H in *L*, I in *BLAT* & J in *MH*.

The following paratypes collected from Thana and Poona districts are deposited in the various herbaria as indicated below:

*Thana district:* Vinchu cha nal, near Igatpuri, Washala forest range, *Billore* 110557A-B dated 27-8-68 *Billore* 116170A-E dated 5-6-68 and *Billore* 116796A-B dated 21-9-68; Kedarnath hill slopes, Harischandragarh, *Billore* 115621 A-B dated 18-11-68 (all in *BSI*). *Billore* 115985 A-O dated 21-9-68 are prepared from the plants raised from the root-stock of *Billore* 116170 A-E.



*Leucas deodikarrii* Billiore et Hemadri; Figs. 1-4: (1) Flowering branch; (2) Flower; (3) Calyx split open; (4) nutlet.

in the Experimental garden of Botanical Survey of India, Poona and are distributed as follows:—  
 A-C in *BSI*; D-E in *CAL*; F in *K*; G in *L*; H in *GH*; I in *US*; J in *MO* & K in *LE*.  
*Poona district*: Malvand dara near Bhivade Khurd, Jannar, *Hemadri* 107555 A-B dated 1-10-65 and *Hemadri* 118025 dated 23-9-68; Bailghat near Tambe, Junnar, *Hemadri* 117830 A-B dated 18-9-68; Bhivade Khurd, Junnar, *Hemadri* 117933 A-B dated 21-9-68; Ghatghar, Junnar, *Hemadri* 12058 A-B, dated 5-12-69; Foot of Ras cha Jungle near Gadad, Khed, *Janardhanan* 76249 A-B.

A few root-stocks, introduced from Thana and Junnar areas, into the Experimental garden of Botanical Survey of India, Poona are thriving well and flowering and fruiting since last two years.

*Leucas deodikarii* Billote et Hemadri has been critically studied with reference to all the species of *Leucas* R.Br. dealt by Mukerjee (Rec. Bot. Surv. Ind. 14: 162-184, 1940) and other species subsequently published from time to time and also got it compared with the specimens available at Central National Herbarium Calcutta (*CAL*), and Kew Herbarium, London (*K*). The taxon closely resembles *L. pubescens* Benth. and also superficially with *L. angularis* Benth. However, it can be easily differentiated from the former by its characteristic stigose indumentum all over, stouter habit, sparsely hairy leaves (not tomentose beneath) and longer, size and shape of the calyx-teeth; from the latter by the shape and texture of the leaves and the size of the flowers with its hood being always much smaller than the lip.

*Habitat*: The plant usually prefers shady areas in the forest as an undergrowth or among thickets in the exposed ghat areas over 750 m alt.

*Distribution*: The taxon is so far confined to the northern limits of Sahyadri ranges of Western ghats in Poona and Thana districts of Maharashtra State. It would be of interest to locate it from some more areas all along the Western ghats.

We have the honour to dedicate this taxon to Dr. G.B. Deodikar, Director, Maharashtra Association for Cultivation of Sciences, Poona, in appreciation of his valuable contribution to Indian Botany.

#### Acknowledgements

Our grateful thanks are due to Dr. R.S. Rao, Regional Botanist, Botanical Survey of India, Poona for kindly going through the manuscript. We are also thankful to the Director, Royal Botanic Garden, Kew and the Keeper, Central National Herbarium for the valuable comments. Dr. C.J. Saldanha, St. Joseph's College, Bangalore, has kindly rendered the Latin diagnosis for the taxon, for which we are thankful.